かつおとまぐろ

1960

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KATSUO TO MAGURO · SKIPJACK & TUNAS

かつお・まぐろ

1960 EDITION

FEDERATION OF JAPAN TUNA FISHER
MEN'S CO-OPERATIVE ASSOCIATIONS

JAPAN TUNA FISHERIES FEDERATION

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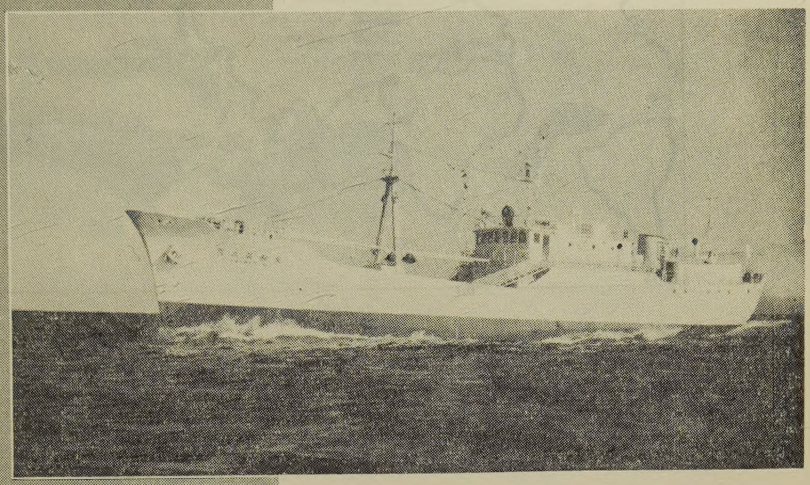
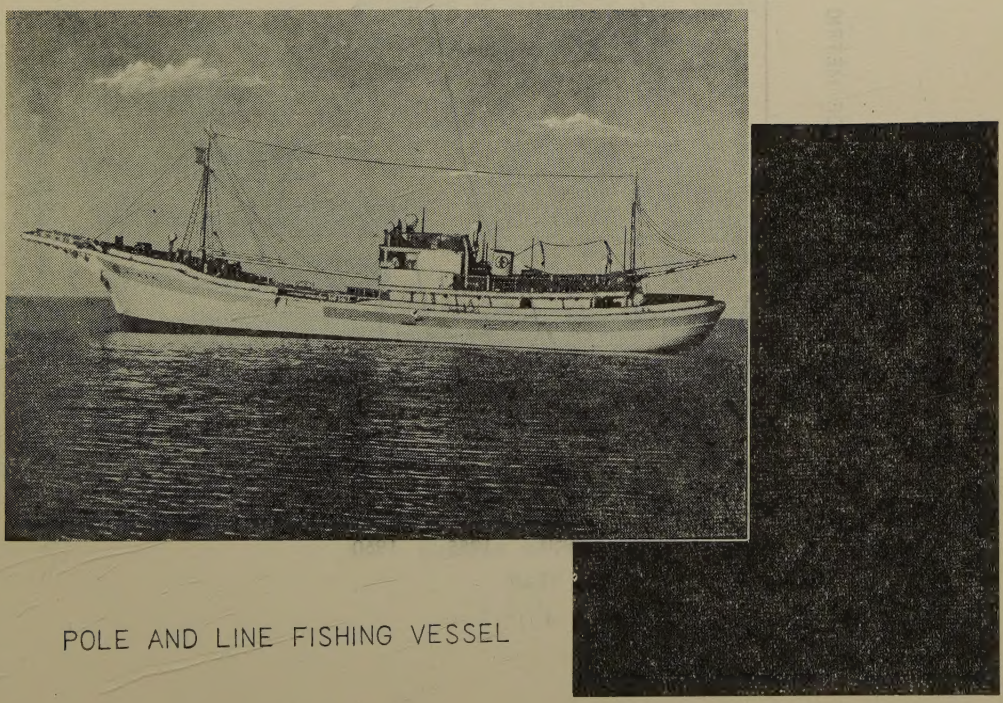


LONG LINE FISHING VESSEL



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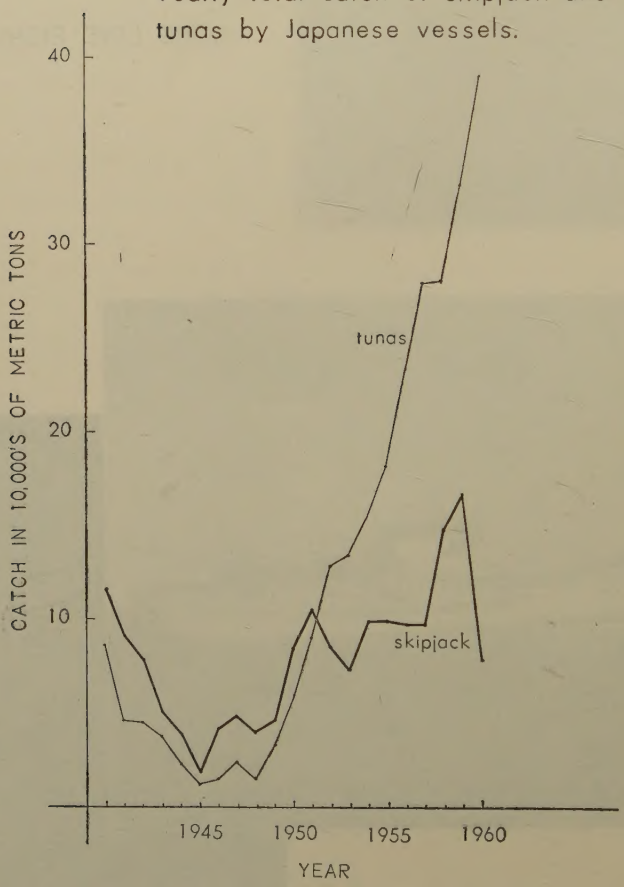
Yearly total catch of skipjack and tunas by Japanese vessels.



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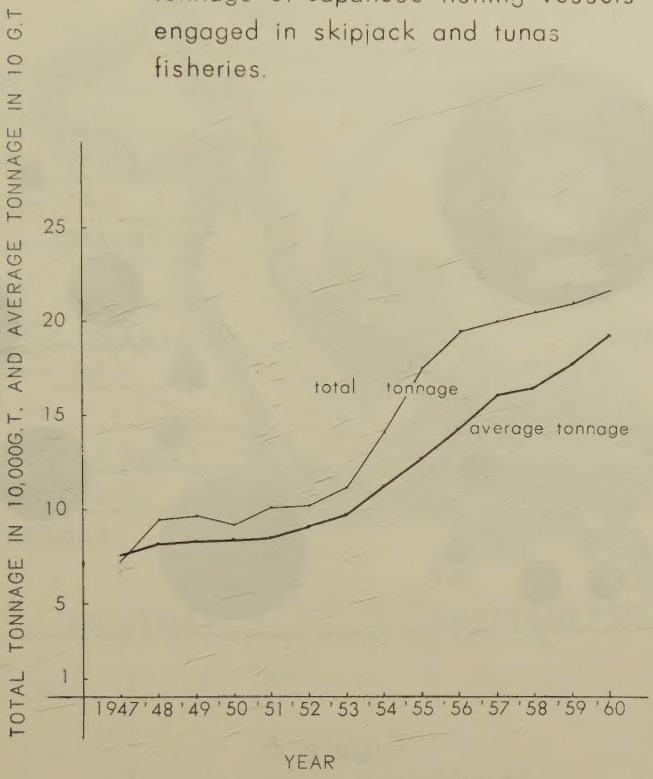

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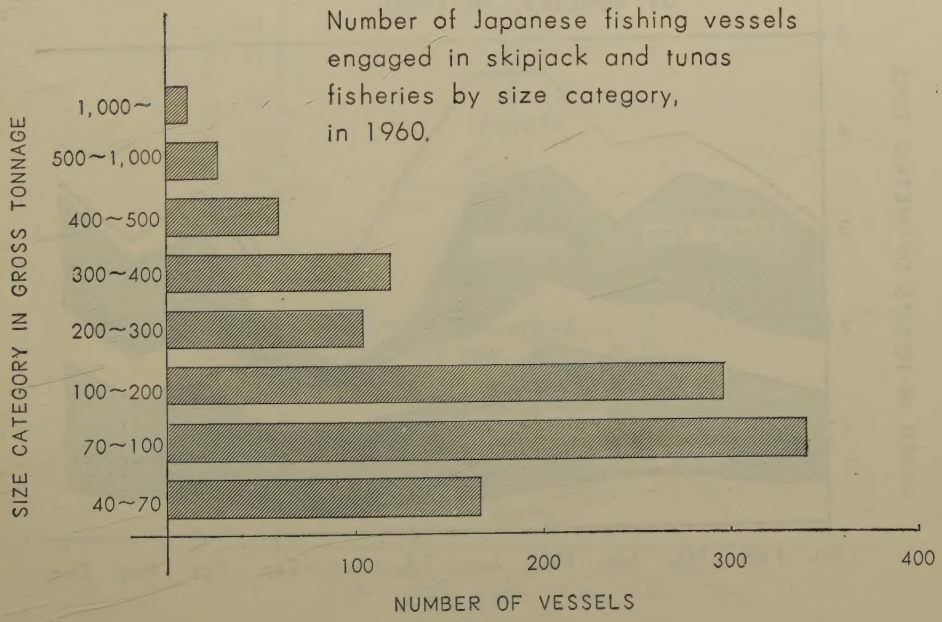

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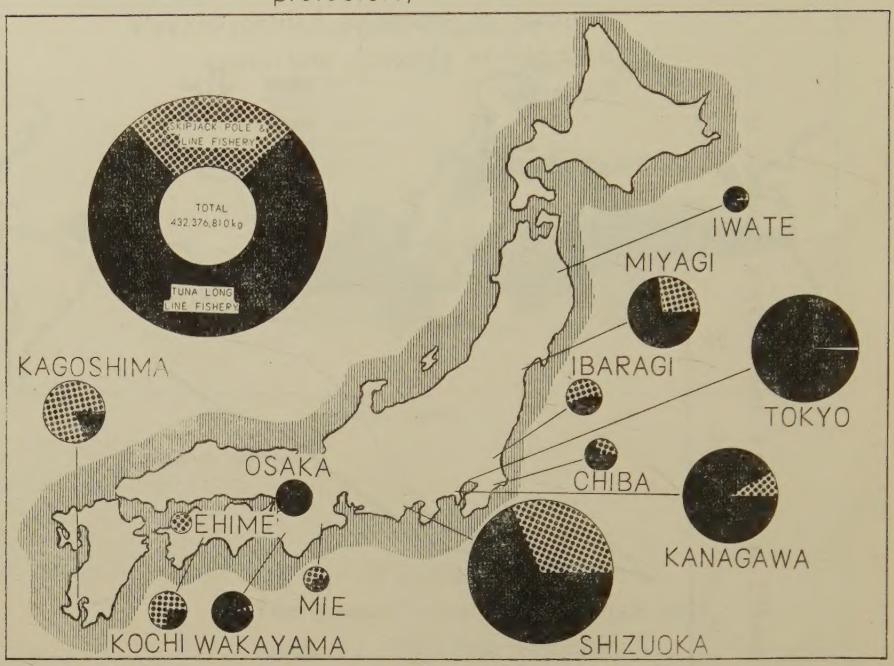

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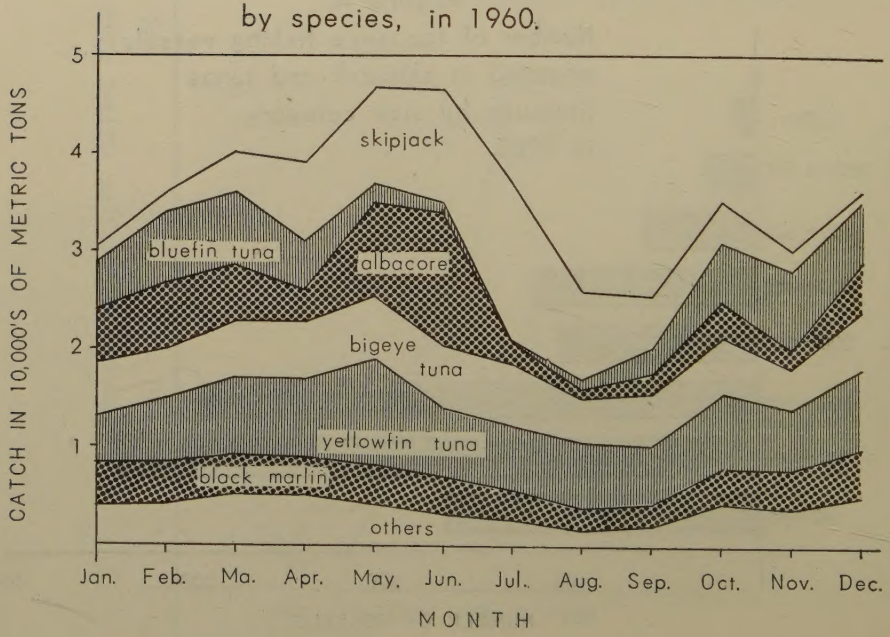

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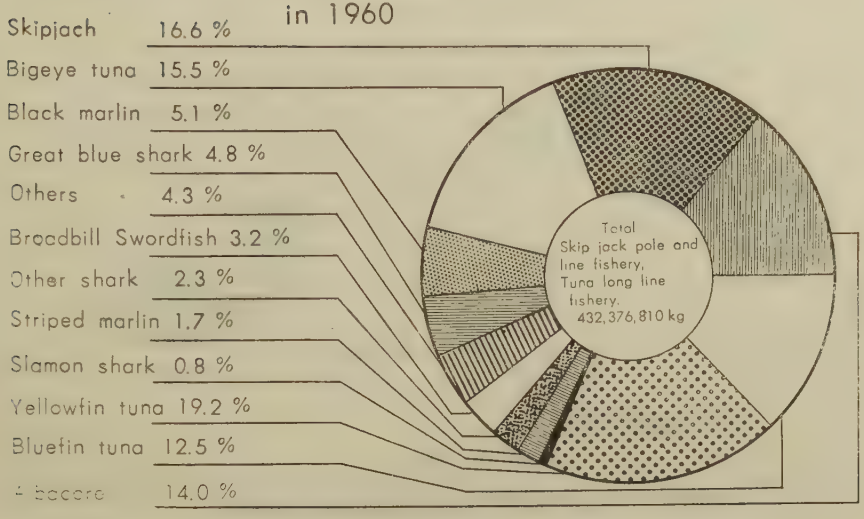

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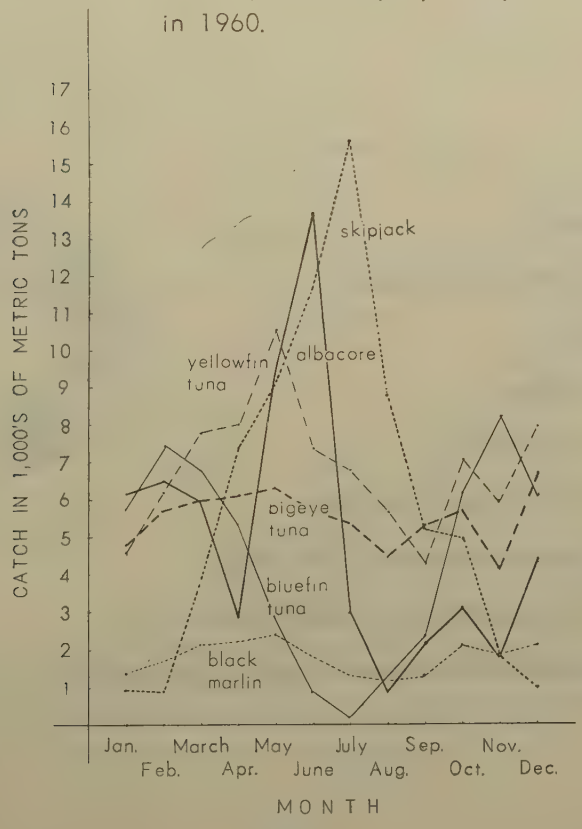

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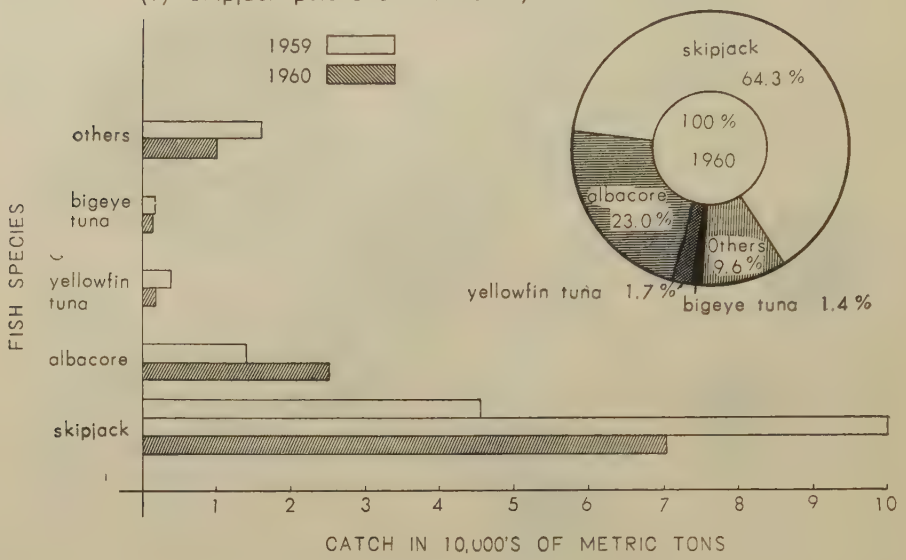


(2) Tuna long line fishery.

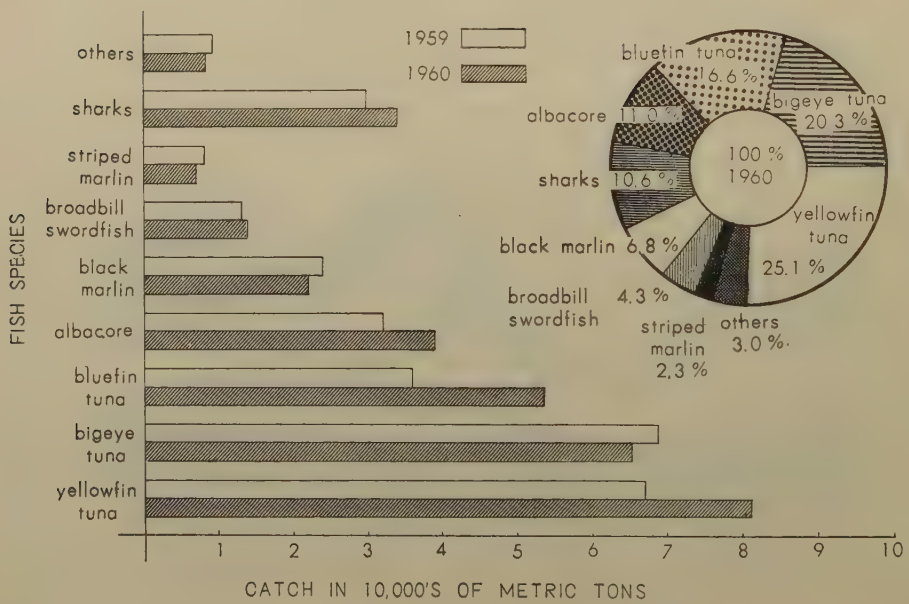


Table 1.

Number and total tonnage of Japanese fishing vessels engaged in skipjack and tunas fisheries, 1947—1960.

Year	No. of vessesls	Total tonnage (G. T.)	Average tonnage of vessels (G. T.)
1947	956	72, 864	76
1948	1, 146	94, 230	82
1949	1, 163	96, 426	83
1950	1, 100	92, 158	84
1951	1, 187	101, 471	85
1952	1, 130	102, 826	91
1953	1, 154	112, 945	98
1954	1, 263	142, 893	113
1955	1, 372	176, 026	128
1956	1, 380	197, 191	143
1957	1, 243	200, 228	161
1958	1, 243	205, 420	165
1959	1, 187	210, 932	178
1960	1, 129	218, 279	193

Note ; (1). Survey by Second Ocean Section, Fisheries Agency.

(2) These vessels are the licenced ones more than 20 gross tonnage 1947—1956 and more than 40 gross tonnage 1957—1960.

Table 2

Number and total tonnage of vessels by size category, based on gross tonnage, 1952—1960.

Year	20(40)—70		70—100		100—200		200—300	
	No.	G. t.	No.	G. T.	No.	G. T.	No.	G. T.
1952	426	18, 429^{81}	414	37, 501^{87}	268	40, 540^{25}	13	3, 102^{15}
%	(37.7)	(18.0)	(36.6)	(36.5)	(23.7)	(39.4)	(1.2)	(3.0)
1953	426	18, 062^{23}	404	36, 601^{13}	270	40, 926^{63}	22	5, 258^{02}
%	(36.9)	(16.0)	(35.0)	(32.4)	(23.5)	(36.2)	(1.9)	(4.6)
1954	414	18, 479^{45}	421	38, 256^{55}	330	49, 426^{59}	33	7, 836^{31}
%	(32.8)	(12.9)	(33.3)	(26.8)	(26.1)	(34.6)	(2.6)	(5.5)
1955	338	15, 788^{37}	467	42, 116^{57}	422	63, 439^{71}	46	11, 171^{72}
%	(24.6)	(9.0)	(34.1)	(23.9)	(30.8)	(36.0)	(3.4)	(6.3)
1956	307	14, 816^{64}	451	40, 752^{27}	436	65, 601^{54}	48	11, 626^{70}
%	(22.2)	(7.5)	(32.8)	(20.7)	(31.5)	(33.3)	(3.5)	(5.9)
1957	200	11, 543^{84}	422	38, 815^{05}	415	63, 276^{58}	54	13, 113^{14}
%	(16.1)	(5.8)	(34.0)	(19.4)	(33.4)	(31.6)	(4.3)	(6.5)
1958	207	12, 143^{16}	415	38, 304^{52}	393	60, 514^{59}	65	15, 770^{15}
%	(16.7)	(5.9)	(33.4)	(18.6)	(31.6)	(29.5)	(5.2)	(7.7)
1959	179	11, 048^{42}	387	36, 135^{47}	353	54, 650^{12}	83	20, 190^{97}
%	(15.1)	(5.2)	(32.6)	(17, 1)	(29.7)	(25.9)	(7.0)	(9.6)
1960	167	10, 287^{32}	341	32, 401^{84}	297	46, 224^{70}	105	25, 925^{50}
%	(14.8)	(4.7)	(30.2)	(14.8)	(26.3)	(21.2)	(9.3)	(11.9)

Note; (1) Survey by Secod Ocean Section, Fisheries Agency.

(2) These vessels are licenced vessels, more than 20 gross tonnage 1952—1956 and more than 40 gross tonnage 1957—1960.

300—400		400—500		500—1, 000		1, 000		Total	
No.	G. T.	No.	G. T.	No.	G. T.	No.	G. T.	No.	G. T.
7	2, 186^{29}	—	—	2	1. 065^{50}	—	—	1, 130	102, 825^{87}
(0. 6)	(2. 1)	—	—	(0. 2)	(1. 0)	—	—	(100. 0)	(100. 0)
24	7, 749^{71}	4	1, 763^{34}	4	2. 583^{90}	—	—	1, 154	112, 944^{96}
(2. 1)	(6. 9)	(0. 3)	(1. 6)	(0. 3)	(2. 3)	—	—	(100. 0)	(100. 0)
34	11, 106^{15}	22	10. 001^{14}	7	4, 681^{55}	2	3, 105^{18}	1, 263	142. 892^{87}
(2. 7)	(7. 8)	(1. 7)	(7. 0)	(0. 6)	(3. 3)	(0. 2)	(2. 1)	(100. 0)	(100. 0)
61	20, 797^{07}	24	10, 989^{90}	11	7. 477^{26}	3	4, 245^{56}	1, 372	176, 026^{16}
(4. 4)	(11. 8)	(1. 7)	(6. 3)	(0. 8)	(4. 3)	(0. 2)	(2. 4)	(100. 0)	(100. 0)
76	26, 246^{39}	35	16, 263^{09}	22	15, 437^{08}	5	6, 447^{42}	1, 380	197, 191^{13}
(5. 5)	(13. 3)	(2. 5)	(8. 3)	(1. 6)	(7. 8)	(0. 4)	(3. 2)	(100. 0)	(100. 0)
85	29, 333^{46}	33	15, 314^{61}	25	17. 792^{87}	9	11, 038^{27}	1. 243	200, 227^{82}
(6. 8)	(14. 7)	(2. 7)	(7. 6)	(2. 0)	(8. 9)	(0. 7)	(5. 5)	(100. 0)	(100. 0)
92	31, 655^{14}	36	16, 629^{19}	25	17, 862^{20}	10	12, 541^{23}	1. 243	205, 420^{18}
(7. 4)	(15. 4)	(2. 9)	(8. 1)	(2. 0)	(8. 7)	(0. 8)	(6. 1)	(100. 0)	(100. 0)
102	35, 189^{10}	44	20, 175^{70}	28	19. 717^{08}	11	13, 825^{16}	1, 187	210, 932^{02}
(8. 6)	(16. 7)	(3. 7)	(9. 6)	(2. 4)	(9. 3)	(0. 9)	(6. 6)	(100. 0)	(100. 0)
119	41, 176^{73}	60	27, 576^{98}	28	19, 331^{48}	12	15, 353^{95}	1, 129	218, 278^{50}
(10. 5)	(18. 9)	(5. 3)	(12. 6)	(2. 5)	(8, 9)	(1. 1)	(7. 0)	(100. 0)	(100. 0)

Table 3.

Yearly total catch of skipjack and tunas by types of fishing operations, 1952—1960.

Year	Skipjack pole and line	Tuna long line	Factory ship type	Based at Foreign
				Samoa
1952	144 ,544	110 ,089	6 ,711	
1953	118 ,410	128 ,625	8 ,130	
1954	139 ,973	148 ,658	14 ,120	
1955	145 ,241	176 ,378	13 ,561	7, 244
1956	163 ,219	213 ,229	11 ,180	7, 094
1957	168 ,746	238 ,680	14, 105	8, 666
1958	184 ,527	258 ,830	14, 384	11, 540
1959	182 ,782	292 ,061	20, 688	12, 054
1960	109 ,577	322 ,798	24, 002	10, 883

Note ; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry. Factory ship Type, Based at Foreign ports and Operated in the Atlantic Ocean are from survey by Second Ocean Section, Fisheries Agency.

(2) All of the Vessels engaged in the fisheries except skipjck pole and line fishery and tuna long line fishery is the licenced vessel.

Unit : M/T

ports	Operated in the Atlantic Ocean		Others	Grand Total
Santo	Export to America from Foreign ports	Export to Italy		
				261, 344
				255, 165
				302, 751
				342, 424
				394, 722
150		10, 285	5, 600	446, 232
4, 309	8, 766	11, 738	10, 479	504, 573
3, 889	17, 475	12, 446	21, 597	562, 992
4, 026	18, 913	17, 834	37, 704	545, 737

Table 4.

Yearly catch of skipjack and tunas by types of fishing operations and by fish species, 1958—1960.

(1) Skipjack pole and line fishery

Unit : kg

Species	1958	1959	1960	Catch per Year
Skipjack	132, 496, 429 (29.9)	146, 657, 137 (30.9)	71, 696, 280 (16.6)	116, 949, 949 (26.0)
Bluefin tuna	14, 759, 839 (3.3)	36, 766, 301 (7.7)	53, 820, 283 (12.5)	35, 115, 474 (7.8)
Albacore	46, 197, 807 (10, 4)	46, 902, 666 (9.9)	60, 641, 055 (14.0)	51, 247, 176 (11.4)
Bigeye tuna	69, 934, 896 (15, 8)	70, 530, 795 (14.9)	66, 972, 931 (15.5)	69, 146, 207 (15.4)
Yellowfin tuna	72, 411, 767 (16, 3)	71, 366, 426 (15.0)	83, 058, 569 (19.2)	75, 612, 254 (16 .8)
Striped marlin	8, 444, 484 (1, 9)	8, 729, 713 (1.8)	7, 397, 155 (1.7)	8, 190, 451 (1.8)
Broad-bill Swordfish	12, 794, 577 (2, 9)	13, 158, 553 (2.8)	13, 910, 311 (3.2)	13, 287, 814 (2.9)
Black and white malines	27, 019, 050 (6.1)	24, 357, 261 (5.1)	22, 059, 070 (5.1)	24, 478, 460 (5.4)
Sharks	29, 957, 559 (6, 8)	30, 235, 342 (6.4)	34, 187, 792 (7.9)	31, 460, 231 (7.0)
Others	29, 341, 513 (6.6)	26, 140, 847 (5.5)	18, 633, 364 (4.3)	24, 705, 241 (5.5)
Total	443, 357, 921 (100.0)	474, 845, 041 (100.0)	432, 376, 810 (100.0)	450, 193, 257 (100.0)

(2) Tuna long line fishery

Species	1958	1959	1960	Catch per Year
Skipjack	131, 441, 772 (71.2)	145, 447, 050 (79.6)	70, 428, 436 (64.3)	115, 772, 419 (72.8)
Bluefin tuna	1, 952, 816 (1.1)	435, 175 (0.2)	302, 231 (0.3)	896, 741 (0.6)
Albacore	22, 175, 470 (12.0)	14, 252, 835 (78)	25, 156, 858 (23.0)	20, 528, 388 (12.9)
Bigeye tuna	4, 196, 887 (2.3)	1, 729, 000 (1, 0)	1, 524, 215 (1.4)	2, 483, 367 (1.6)
Yellowfin tuna	2, 934, 319 (1.6)	4, 119, 326 (2.3)	1, 872, 912 (1.7)	2, 975, 519 (1.9)
Striped marlin	16, 259 (0·0)	18, 759 (0.0)	9, 099 (0.0)	14, 706 (0.0)
Broad bill Sword fish	21, 176 (0.0)	21, 828 (0.0)	13, 542 (0.0)	18, 849 (0.0)
Black aad white marlins	5, 209 (0 .0)	8, 292 (0.0)	4, 023 (0.0)	5, 841 (0.0)
Sharks	72, 139 (0.0)	62, 073 (0.0)	54, 531 (0.0)	62, 914 (0.0)
Others	21, 711, 870 (11.8)	16, 688, 396 (9.1)	10, 212, 053 (9.3)	16, 204, 106 (10.2)
Total	184, 527, 917 (100.0)	182, 782, 734 (100.0)	109, 577, 900 (100.0)	158, 962, 850 (100.0)

(3) Total

Specise	1958	1959	1960	Catch per Year
Skipjack	1, 054, 657	1, 210, 087	1, 267, 844	1, 177, 529
	(0.4)	(0.4)	(0.4)	(0.4)
Bluefin tuna	12, 807, 023	36, 331, 126	53, 518, 052	34, 218, 734
	(5.0)	(12.4)	(16.6)	(11.8)
Albacore	24, 022, 337	32, 649, 831	35, 484, 197	30, 718, 788
	(9.3)	(11.1)	(11, 0)	(10.5)
Bigeye tuna	65, 738, 009	68, 801, 795	65, 448, 716	66, 662, 840
	(25.4)	(23.6)	(20.3)	(22.9)
Yellowfin tuna	69, 477, 448	67, 247, 100	81, 185, 657	72, 636, 735
	(26.9)	(23.0)	(25·1)	(24.9)
Striped marlin	8, 428, 225	8, 710, 954	7, 388, 056	8, 175, 745
	(3.3)	(3.0)	(2.3)	(2.8)
Broad-bill Sword fish	12, 773, 401	13, 136, 725	13, 896, 769	13, 268, 965
	(4.9)	(4.5)	(4.3)	(4.6)
Black and white marlins	27, 013, 841	24, 348, 969	22, 055, 047	24, 472, 619
	(10.4)	(8.3)	(6.8)	(8.4)
Sharks	29, 885, 420	30, 173, 269	34, 133, 261	31, 397, 317
	(11.5)	(10.3)	(10.6)	(10.8)
Others	7, 629, 643	9, 452, 451	8, 421, 311	8, 501, 135
	(2.9)	(3.4)	(2.6)	(2.9)
Total	258, 830, 004	292, 062, 307	322, 798, 910	291, 230, 407
	(100.0)	(100.0)	(100.0)	(100.0)

Note ; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry.

(2) Not include Factory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

(3) Include the catch by the vessels, less than 40 G. T., which are not necessary to get the fishing licence.

Table 5.

Monthly catch in skipjack and tunas fisheries by species, 1960.

	Skipjack	Bluefin tuna	Albacore	Bigeye tuna	Yellowfin tuna	Striped marlin
Jan.	957, 460	5, 716, 214	6, 140, 184	4, 813, 272	4, 644, 294	693, 693
Feb.	904, 303	7, 544, 299	6, 563, 195	5, 743, 742	6, 263, 829	426, 614
March	3, 847, 327	6, 825, 221	6, 094, 197	6, 083, 608	7, 855, 664	548, 128
April	7, 470, 355	5. 353, 782	2, 905, 622	6, 143, 645	8, 024, 224	673, 848
May	9, 104, 220	2, 837, 474	9, 456, 056	6, 373, 367	10, 636, 851	972, 905
June	11, 664, 528	953, 183	13, 757, 388	5, 782, 692	7, 497, 221	838, 017
July	15, 682, 930	246, 511	3, 032, 748	5, 412, 966	6, 854, 082	444, 174
Aug.	8, 860, 156	1, 377, 707	944, 796	4, 507, 264	5, 772, 837	230, 751
Sep.	5, 284, 969	2, 340, 130	2, 243, 004	5, 378, 788	4, 386, 581	345, 155
Oct.	5, 004, 286	6, 269, 964	3, 169, 260	5, 795, 771	7, 160, 750	840, 234
Nov.	1, 845, 459	8, 244, 111	1, 854, 460	4, 183, 776	5, 911, 488	689, 782
Dec.	1, 070, 287	6, 111, 687	4, 480, 145	6, 754, 310	8, 050, 748	693, 854
Total	71, 696, 280	53, 820, 283	60, 641, 055	66 ,972, 931	83, 058, 569	7, 397, 155

Note ; (1) Survey by Statstics and Survey Division, Ministry of Agriculture and Forestry.

(2) Not include the catch by Eactory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

(3) Monthly catch are counted on the month landed.

Unit : kg

Broadbill swordfish	Black and white marlins	Great blue shark	Salmon shark	Other sharks	Others	Total
2, 176, 661	1, 447, 978	2, 012, 890	56, 779	834, 232	1, 334, 338	30, 827, 995
2, 212, 882	1, 795, 879	2, 016, 390	58, 863	874, 100	1, 453, 970	35, 857, 796
1, 661, 738	2, 186, 129	2, 567, 815	154, 039	970, 568	1, 618, 534	40, 412, 968
1, 072, 737	2, 201, 278	2, 374, 110	394, 680	979, 072	1, 575, 492	39, 168, 845
541, 918	2, 463, 666	1, 302, 467	562, 185	1, 077, 314	1, 674, 121	47, 002, 544
600, 851	1, 849, 956	1, 441, 974	315, 975	958, 668	1, 220, 945	46, 881, 398
672, 434	1, 359, 770	1, 192, 627	633, 419	651, 593	1, 007, 156	37, 190, 410
421, 551	1, 207, 012	631, 377	387, 817	383, 602	1, 651, 805	26, 376, 680
281, 069	1, 321, 655	1, 367, 772	452, 444	423, 199	1, 829, 363	25, 654, 129
1, 031, 121	2, 175, 603	2, 100, 130	228, 833	682, 232	1, 844, 466	36, 302, 650
1, 254, 934	1, 925, 301	1, 928, 646	48, 284	877, 720	1, 464, 446	30, 228, 407
1, 982, 410	2, 124, 843	2, 070, 832	66, 670	1, 108, 474	1, 958, 728	36, 472, 988
13, 910, 311	22, 059, 070	21, 007, 030	3, 359, 988	9, 820, 774	18, 633, 364	432, 376, 810

Table 6.

Catch in skipjack pole and line fishery by species and by prefectures, 1960.

	Skipjack	Bluefin tuna	Albacore	Bigeye tuna	Yellowfin tuna	Striped marlin
Hokkaido	—	—	—	—	—	—
Aomori	—	—	—	—	—	—
Iwate	341, 379	25, 699	4, 015	—	275	229
Miyagi	8, 955, 255	252	1, 166, 317	308, 875	23, 553	365
Fukushima	464, 612	16	45, 298	20, 012	4, 450	—
Ibaragi	2, 299, 476	—	1, 645, 140	1, 167, 914	2, 956	—
Chiba	1, 340, 902	2, 301	60, 372	49, 075	6, 868	58
Tokyo	44, 201	—	240, 871	1, 031	—	—
Kanagawa	2, 717, 299	618	2, 635, 195	131, 758	10, 977	1, 286
Shizuoka	30, 835, 849	11, 241	19, 135, 359	842, 980	1, 651, 037	5, 957
Aichi	—	—	—	—	—	—
Mie	1, 521, 930	3, 927	21, 002	2, 570	6, 538	435
Wakayama	471, 387	23, 504	4, 257	—	137	125
Tokushima	55, 318	28, 585	760	—	10, 030	97
Kochi	2, 263, 406	167, 483	5, 074	—	6, 346	201
Ehime	1, 460, 253	35, 818	193, 070	—	54	—
Miyazaki	486, 924	2, 787	—	—	147, 730	288
Akita	8, 225	—	—	—	—	—
Fukui	—	—	—	—	—	—
Yamaguchi	—	—	—	—	—	—
Fukuoka	—	—	—	—	—	—
Nagasaki	5, 617	—	—	—	—	—
Kumamoto	881	—	—	—	—	—
Kagoshima	17, 155, 522	—	128	—	1, 961	58
Osaka	—	—	—	—	—	—
Total	70, 428, 436	302, 231	25, 156, 858	1, 524, 215	1, 872, 912	9, 099

Note ; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry.

(2) Not include the catch by Factory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

(3) Counted in the prefecture landed.

Unit : kg

Broadbill swordfish	Black and white marlins	Great blue shark	Salmon shark	Other sharks	Others	Total
—	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	56	—	11, 708	383, 361
468	2, 417	1. 643	540	708	220, 664	10, 681, 057
131	—	—	—	130	29, 458	564, 107
—	—	—	—	—	141, 903	4, 257, 389
264	—	1, 022	—	420	412, 519	1, 873, 801
—	—	50	—	25	6, 228	292, 406
4, 242	204	2, 560	—	2, 093	167, 936	5, 674, 168
406	1, 120	1, 105	180	12, 624	859, 600	53, 357, 458
—	—	—	—	—	—	—
8, 031	—	—	—	1, 244	447, 604	2, 013, 281
—	—	—	—	104	263, 045	762, 559
—	—	—	—	278	149, 489	244, 557
—	90	—	—	826	3, 640, 468	6, 083, 894
—	—	—	—	38	530, 871	2, 220, 104
—	—	—	—	1, 217	177, 474	816, 420
—	—	—	—	—	619	8, 844
—	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	—	—	—	102, 890	102, 890
—	—	—	—	—	—	5, 617
—	—	—	—	89	2, 666	3, 636
—	192	12, 428	—	15, 151	3, 046 911	20, 232, 351
—	—	—	—	—	—	—
13, 542	4, 023	18, 808	776	34, 947	10, 212, 053	109, 577, 900

Table 7.

Catch in tunas long line firhery by species and by prefectures, 1960.

	Skipjack	Bluefin tuna	Albacore	Bigeye tuna	Yellowfin tuna	Striped marlin
Hokkaido	66	47, 158	1, 008	4, 176	1, 509	18, 801
Aomori	10	155, 997	4, 017	23, 843	3, 285	5, 330
Iwate	246	188, 725	44, 519	317, 915	53, 543	66, 532
Miyagi	60, 042	670, 715	1, 837, 888	2, 727, 687	912, 239	510, 941
Fukushima	205	43, 176	93, 536	143, 842	46, 104	17, 398
Ibaragi	413, 858	7, 445	1, 978, 244	98, 552	43, 997	19, 161
Chiba	5, 140	472, 815	162, 141	389, 351	222, 817	83, 989
Tokyo	177, 813	3, 657, 028	8, 635, 193	25, 581, 775	23, 482, 412	2, 443, 925
Kanagawa	261, 308	8, 709, 983	4, 592, 329	15 ,554, 718	22, 139, 189	1, 706, 967
Shizuoka	305, 251	37, 830, 656	15, 477, 891	16, 915, 171	25, 617, 700	1, 677, 798
Aichi	439	2, 278	15, 962	129, 857	189, 479	3, 798
Mie	5, 984	75, 126	270, 787	139, 904	382, 279	46, 293
Wakayama	7, 743	894, 212	1, 137, 943	1, 573, 068	3, 184, 616	486, 219
Tokushima	4, 237	1, 166	53, 456	29, 983	122, 393	9, 897
Kochi	10, 240	85, 007	135, 713	374, 481	685, 231	59, 552
Ehime	—	—	—	—	—	—
Miyazaki	630	8, 396	3, 747	8, 775	233, 870	21, 201
Akita	—	—	—	—	—	—
Fukui	—	—	—	—	—	—
Yamaguchi	—	6, 371	185	—	4, 109	1, 460
Fukuoka	—	—	—	—	—	—
Nagasaki	978	—	—	—	—	—
Kumamoto	—	—	—	—	—	—
Kagoshima	2, 535	292, 166	838, 545	186, 484	367, 237	103, 345
Osaka	11, 119	369, 632	201, 093	1, 249, 134	3, 493, 648	105, 449
Total	1, 267, 844	53, 518, 052	35, 484, 197	65, 448, 716	81, 185, 657	7, 388, 056

Note ; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry.

(2) Not include the catch by Factory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

(3) Counted in the prefecture landed.

Unit : kg

Broadbill swordfish	Black and white marlins	Great blue shark	Salmon shark	Other sharks	Others	Total
96, 596	2, 320	500, 714	16, 683	10, 967	5, 399	851, 397
51, 819	1, 861	645, 638	554, 622	58, 047	20, 983	1, 525, 452
112, 054	18, 870	827, 658	270, 778	75, 681	45, 369	2, 021, 890
5. 986, 964	213, 640	8, 071, 683	1, 936, 991	1, 075, 729	667, 770	24, 672, 289
296, 618	4, 818	445, 647	10, 013	38, 237	65, 822	1, 205, 416
125, 458	764	177, 699	89, 879	59, 252	41, 329	3, 055, 638
952, 675	34, 896	1, 016, 579	113, 098	348, 155	69, 081	3, 870, 737
4, 296, 677	6, 770, 678	5, 397, 745	143, 433	3, 111, 327	2, 727, 407	86, 425, 413
526, 534	7, 164, 327	198, 823	1, 294	1, 735, 161	1, 505, 369	64, 096, 002
986, 387	6, 125, 741	1, 354, 182	65, 491	1, 435, 662	1, 791, 938	109, 583, 868
2, 533	44, 770	—	—	22, 998	20, 341	432, 455
24, 110	19, 707	80, 535	450	105, 807	101, 351	1, 252, 334
176, 055	414, 604	967, 066	—	451, 790	259, 673	9, 552, 989
6, 121	2, 091	—	936	24, 504	19, 326	274, 110
54, 255	152, 443	130, 907	—	155, 250	352, 785	2, 195, 864
—	—	—	—	—	—	—
2, 897	3, 223	4, 105	—	37, 821	67, 665	392, 330
—	—	—	—	—	—	—
—	—	—	—	—	8, 487	8, 487
558	932	—	—	3, 906	3, 353	20, 874
—	—	—	—	—	—	—
—	—	—	—	40	11, 976	12, 994
—	—	—	—	—	—	—
106, 276	360, 847	1, 023, 884	9, 543	794, 966	411, 347	4, 497, 175
92, 182	718, 515	145, 357	—	240, 527	224, 540	6, 851, 196
13, 896, 769	22, 055, 047	20, 988, 222	3, 359, 212	9, 785, 827	8, 421, 311	322, 798, 910

Table 8.

Number of actual fishing vessels operated, number of trips and catch by size category, 1959—1960.

(1) Skipjack pole and line fishery

	1959					
	No. of vessels (1)	No. of Trips (2)	Catch M/T (3)	Average (2)/(1)	(3)/(1)	(3)/(2)
—20 G. T.			31, 687		kg	kg
20—30	18	1, 373	3, 154	76.3	175, 222	2, 297
30—50	80	2, 623	11, 436	32.4	142, 950	4, 360
50—100	234	4, 484	50, 295	19.2	214, 936	11, 217
100—200	262	3, 391	80, 097	12.9	305, 713	23, 620
200—500	26	144	6, 109	5.5	234, 962	42, 424
500—	—	—		—	—	—
Total (more than 20)	620	12, 015	151, 091		243, 560	12, 541
Grand Totat			182, 782			

(2) Tuna long line fishery

—20 G. T.			1, 884		kg	kg
20—30	46	609	2, 343	13.2	50, 935	3, 847
30—50	319	2, 585	19, 743	8.1	61, 890	7, 638
50—100	687	4, 256	78, 522	6.2	114, 297	18, 450
100—200	330	1, 205	54, 287	3.6	164, 506	45, 051
200—500	230	728	110, 544	3.1	480, 626	151. 846
500—	29	37	24, 734	1.2	852, 897	668, 486
Total (more than 20)	1, 641	9, 420	290, 173		176, 827	308, 039
Grand total			292, 061			

Note; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry.

(2) Not include the catch by Factory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

1960					
No. of vessels (1)	No. of trips (2)	Catch M/T (3)	Average		
			(2)/(1)	(3)/(1)	(3)/(2)
(%)		17, 359(55)		kg(%)	kg(%)
11(61)	448(33)	1, 049(33)	40. 7(53)	95, 455(54)	2, 344(102)
98(123)	3, 068(117)	10, 887(95)	31, 3(95)	111, 091(78)	3, 549(81)
179(76)	3, 799(85)	32, 851(65)	21, 2(110)	183, 525(85)	8, 647(77)
229(87)	2, 495(74)	43, 175(54)	10. 9(84)	188, 537(62)	17, 305(73)
28(108)	137(95)	4, 254(70)	4. 9(89)	151, 964(65)	31, 058(73)
—	—	—	—	—	—
545(88)	9, 947(83)	92, 216(61)		169, 207(69)	9, 271(74)
		109, 577(60)			

(%)	(%)	3, 435(182)		kg	kg(%)
40(87)	625(103)	2, 482(106)	15. 6(118)	62, 075(122)	3, 973(103)
528(166)	3, 658(142)	32, 140(163)	6. 9(85)	60, 873(98)	8, 786(115)
671(98)	4, 215(99)	80, 110(102)	6. 3(102)	119, 390(104)	19, 006(103)
298(90)	1, 192(99)	54, 692(101)	4. 0(111)	183, 534(112)	45, 883(102)
278(121)	818(112)	130, 554(118)	2. 9(94)	469, 619(98)	159, 601(105)
27(93)	35(95)	19, 382(78)	1. 3(108)	717, 852(84)	553, 771(83)
1, 842(112)	10, 543(112)	319, 361(110)		173, 379(98)	302, 916(98)
		322, 798(111)			

(3) Number of vessels is numer of actual fishing units engaged in fisheries throughout a year.

(4) Number of trips is not respected operating or not, defined as one trip from departure to reture of vessel for operating fishery.

Table 9.

Quantity and amount of exports of skipjack and tunas, 1960.

Item	Quantity of export	Average unit price	Amount	Converted quantity of material fish
(1) Frozen	S/T	$	$	M/T
From home ports				
Albacore	25, 185	304	7, 649, 414	24, 187
Yellowfin tuna	31, 054	271	8, 430, 708	31, 609
Bigeye tuna	90	222	19, 992	88
skipjack	138	180	26, 206	125
other tunas	276	240	66, 375	293
total	56, 743	285	16, 192, 695	56, 302
Broadbill swordfish	5, 168	636	3, 284, 621	6, 713
Total	61, 911	315	19, 477, 316	63, 015
To America from foreign ports				
Albacore				
Yellfin tuna	8, 017	281	2, 254, 776	7, 273
total	14, 025	225	3, 152, 407	14, 137
	22, 042	245	5, 407, 183	21, 410
To Europe directly				
tunas	40, 788	227	9, 264, 544	41, 113
Total	62, 830	233	14, 671, 727	62, 523
Total	124, 741	274	34, 149, 043	125, 538
(2) Canned	C/S	$	$	M/T
White oil	346, 328	7.95	2, 753, 146	6, 927
White brine	986, 853	9.43	9, 309, 180	19, 737
White jelly	14, 310	6.77	96, 937	286
Light oil	1, 085, 271	6.18	6, 708, 881	26, 047
Light brine	1, 057, 709	6.68	7, 063, 731	25, 385
Light jelly	50, 784	5.29	268, 652	1, 219
Light tomato	28, 667	5.23	150, 006	688
Tuna vegetable	38, 873	6.00	233, 277	—
Tender tuna	2, 704	6.18	16, 715	42
Tuna spread	282	12.64	3, 564	—
total	3, 611, 781	7.37	26, 604, 089	80, 331
Grand Total			60, 753, 132	205.869

Note ; From " Statistics of Approval of Export ", Ministry of International Trade and Industry, and " Report of Shipment ", Japan Frozen Food Export Asso'n.

Table 10.

Yearly quantity of exports of skipjack and tunas, 1947—1960.

Year	Frozen			Canned	Converted quantity of material fish
	From home ports	To Europe directly	To America from foreign ports		
	S/T	S/T	S/T	C/ S	M/T
1947	312.0			—	283
1948	2, 349.7			72, 560	4, 745
1949	2, 957.4			211, 526	8, 847
1950	13, 663.0			1, 545, 820	51, 300
1951	24, 456.9			634, 432	41, 244
1952	30, 606.7			1, 274, 879	60, 864
1953	45, 873.6			1, 788, 382	81, 784
1954	63, 644.9			1, 749, 374	100, 566
1955	71, 827.4			1, 968, 053	115, 809
1956	61, 447.0			2, 614, 774	120, 316
1957	70, 940.2	11, 483		3, 198, 502	160, 155
1958	79, 812.0	10, 846	5, 474	3, 245, 139	168, 293
1959	67, 035.3	22, 499	16, 156	3, 543, 951	187, 892
1960	61, 911.2	40, 788	22, 042	3, 611, 781	205, 869

Note ; From "Statistics of Approval of Export", Ministry of International Trade and Industry, and "Report of Shipment", Japan Frozen Food Export Asso'n.

Table 11.

Quantity and amount of exports of skipjack and tunas by the country of destination, 1960.

(1) Statistics of Approval of Export

Country	Frozen		canned		Total amount $
	Quantity S/T	Amount $	Quantity C/S	Amount $	
America	82, 395	24, 407, 011	2, 044, 844	16, 376, 475	40, 783. 486 (67. 1)
Italy	20, 466	4, 705, 986	8, 284	54, 691	4, 760, 677 (7. 8)
West Germany	2	456	736, 389	4, 407, 710	4, 408, 166 (7. 3)
Yugoslavia	12, 981	3, 076, 062	—	—	3, 076, 062 (5. 1)
Canada	1, 479	458, 573	179, 131	1, 504, 327	1, 962, 900 (3. 2)
France	6, 140	1, 311, 418	368	2, 964	1, 314, 382 (2. 2)
Switzerland	—	—	124, 985	887, 361	887. 361 (1. 5)
Belgium	11	2, 800	77, 773	506, 371	509, 171 (0. 8)
Lebanon	—	—	53, 288	392, 503	392, 503 (0. 6)
others	1, 267	186, 737	386, 719	2, 471, 687	2, 658, 424 (4. 4)
Total	124, 741	34, 149, 043	3, 611, 781	26, 604, 089	60, 753, 132 (100. 0)

Note ; Survey by Ministry of International Trade and Industry.

(2) Statistics of Customs

Country	Frozen		Canned		Total amount $
	Quantity S/T	Amount $	Quantity C/S	Amount $	
America	78, 220	23, 247, 615	2, 027, 948	16, 349, 633	39, 597, 248 (60.0)
Italy	19, 754	3, 900, 087	8, 188	54, 818	3, 954, 905 (6, 0)
West Germany	2	453	607, 724	3, 655, 515	3, 655, 968 (5.5)
Yugoslavia	13, 769	2, 999, 547	—	—	2, 999, 547 (4.5)
Canada	1, 859	575, 214	175, 177	1, 492, 859	2, 068, 073 (3.1)
Portugal	6, 650	1, 765, 461	—	—	1, 765, 461 (2.7)
France	4, 144	844, 548	375	3, 095	847, 643 (1.3)
Mexico	1, 226	805, 336	—	—	805, 336 (1.2)
Switzerland	—	—	111, 413	797, 583	797, 583 (1.2)
others	28, 706	6, 544, 906	454, 936	3, 023, 431	9, 568, 337 (14.5)
Total	154, 330	40, 683, 167	3, 385, 761	25, 376, 934	66, 060, 101 (100.0)

Note ; Survey by Fisheries Section, Fisheries Agency.

Table 12.

Yearly quantity and amount of exports by fish spepes, 1956—1960.

(1) Frozen

Fish species	Year	Quatity	Unit price	Amonnt	Converted quantity of material fish
From home ports		S/T	$	$	M/T
Albacoe	1956	22, 012	375	8, 262, 716	21, 043
	1957	34, 966	304	10, 613, 419	36, 188
	1958	22, 127	316	6, 997, 307	20, 760
	1959	24, 760	344	8, 522, 506	24, 761
	1960	25, 185	304	7, 649, 414	24, 187
Yellowfin tuna	1956	32, 501	223	7, 254, 493	31, 078
	1957	30, 906	248	7, 676, 127	33, 420
	1958	46, 620	266	12, 390, 671	45, 709
	1959	34, 999	258	9, 018, 028	35, 743
	1960	31, 054	271	8, 430, 708	31, 609
Skipjack	1956	1	460	287	1
	1957	21	180	3, 780	23
	1958	2, 711	194	525, 301	2, 475
	1959	1, 204	157	188, 756	1, 092
	1960	138	190	26, 206	125
Bigeye tuna	1956	570	221	126, 042	554
	1957	661	231	152, 382	698
	1958	3, 163	234	739, 475	3, 289
	1959	1, 275	273	348, 595	1, 467
	1960	90	222	19, 992	88
Other tunas	1956	322	211	68, 200	293
	1957	254	231	55, 226	244
	1958	116	230	26, 623	109
	1959	—	—	—	—
	1960	276	240	66, 375	293
total	1956	55, 406	284	15, 711, 738	52, 969
	1957	66, 808	277	18, 500, 934	70, 573
	1958	74, 737	277	20, 679, 377	72, 342
	1959	62, 238	290	18, 077, 885	63, 063
	1960	56, 743	285	16, 192, 695	56, 302
Broadbill Swordfish	1956	6, 014	618	2, 244, 446	8, 417
	1957	4, 132	697	2, 879, 928	6, 263
	1958	5, 075	648	3, 290, 788	6, 585
	1959	4, 797	522	2, 504, 374	6, 234
	1960	5, 168	636	3, 284, 621	6, 713
Total	1956	61, 447	292	17, 956, 184	61, 386
	1957	70, 940	301	21, 380, 862	76, 836
	1958	79, 812	300	23, 970, 165	78, 927
	1959	67, 035	307	20, 582, 159	69, 297
	1960	61, 911	315	19, 477, 316	63, 015

Fish species	Year	Quantity	Unit price	Amount	Converted quanfify of material fish
To America from foreign ports		S/T	$	$	M/T
Albacore	1958	383	323	123, 845	347
	1959	1, 509	300	453, 055	1, 369
	1960	8, 017	281	2, 254, 776	7, 273
Yellowfin tuna	1958	5, 091	235	1, 196, 719	5, 142
	1958	14, 644	235	3, 443, 199	14, 761
	1960	14, 025	225	3, 152, 407	14, 137
Other tunas	1958	—	—	—	—
	1959	3	280	980	3
	1960	—	—	—	—
Total	1958	5, 474	241	1, 320, 564	5, 489
	1959	16, 156	241	3, 897, 234	16, 133
	1960	22, 042	245	5, 407, 183	21, 410
To Europe by the vessels operated in the Atlntic Ocean					
tunas	1957	11, 483	229	2, 634, 427	11, 562
	1958	10, 846	222	2, 403, 260	10, 942
	1959	22, 499	228	5, 129, 204	22, 678
	1960	40, 788	227	9, 264, 544	41, 113
TOTAL	1957	11, 483	229	2, 634, 427	11, 562
	1958	16, 320	228	3, 723, 824	16, 431
	1959	38, 655	234	9, 026, 438	38, 811
	1960	62, 830	234	14, 671, 727	62, 523
TOTL OF FROZEN EXPORT	1956	61, 447	292	17, 956, 184	61, 386
	1957	82, 423	291	24, 015, 289	88, 398
	1958	96, 132	288	27, 693, 989	95, 358
	1959	105, 690	280	29, 608, 697	108, 108
	1960	124, 741	274	34, 149, 043	125, 538

(2) Canned

Item	Year	Quantity C/S	Unit price $	Amonut $	Converted quantity of material fish M/T
White meat in oil	1956	252, 652	7. 95	2, 009, 706	5, 211
	1957	435, 334	6. 26	2, 725, 114	8, 978
	1958	271, 678	7. 05	1, 914, 827	5, 603
	1959	283, 316	8. 09	2, 291, 688	5, 666
	1960	346, 328	7. 95	2, 753, 146	6, 927
White meat in brine	1956	1, 028, 461	9. 06	9, 315, 960	21, 212
	1957	1, 186, 518	8. 74	10, 364, 302	24, 472
	1958	1, 335, 449	8, 56	11, 428, 000	27, 544
	1959	1, 014, 420	10. 22	10, 371, 417	20, 288
	1960	986, 853	9. 43	9, 309, 180	19, 737
White meat in jelly	1957	32, 756	6. 30	206, 282	676
	1958	36, 491	6. 78	247, 359	754
	1959	19, 866	6. 67	132, 478	397
	1960	14, 310	6. 77	96, 937	286
Light meat in oil	1956	650, 926	6. 54	4, 255, 281	15, 866
	1957	823, 290	5. 99	4, 930, 843	20, 066
	1958	667, 682	6. 29	4, 199, 757	16, 275
	1959	1, 158, 542	6. 12	7, 092, 081	27, 805
	1960	1, 085, 271	6. 18	6, 708, 881	26, 047
Light meat in brine	1956	628, 735	7. 37	5, 032, 871	16, 642
	1957	720, 604	7. 36	5, 305, 636	17, 565
	1958	812, 988	7. 45	6, 055, 194	19, 815
	1959	1, 038, 600	7. 22	7, 500, 052	24, 927
	1960	1, 057, 709	6, 68	7, 063, 731	25, 385
Light meat in jelly	1958	92, 983	5. 50	511, 084	2, 265
	1959	16, 021	5. 14	82, 394	385
	1960	50, 784	5. 29	268, 652	1, 219
Light meat in tomato	1958	27, 868	6. 18	189, 791	679
	1959	13, 186	6. 12	84, 610	316
	1960	28, 667	5. 23	150, 006	688
Tuna vegetable	1960	38, 873	6. 00	233, 277	—
Tender tuna	1960	2, 704	6. 18	16, 715	42
Tuna spread	1960	282	12. 64	3, 564	—
TOTAL OF CANNED EXPORT	1956	2, 614, 774	7. 88	20, 613, 818	58, 931
	1957	3, 198, 502	7. 36	23, 532, 177	71, 757
	1958	3, 245, 139	7. 56	24, 546, 012	72, 935
	1959	3, 543, 951	7. 78	27, 554, 720	79, 784
	1960	3, 611, 781	7. 37	26, 604, 089	80, 331

Note ; (1) From "Statistics of Approval of Export", Ministry of International Trade and Industry, and "Report of Shipment", Japan Frozen Food Export Association.

(2) Raw material fish of white canned is Albacore, and that of Light canned is chiefly skipjack.

Table. 13.

Tuna long line fishery by Factory Ship Type, 1950—1960

(1) Feet

Yaer	No. of trips	Factory ship		Catcher boat		Days out	Operation period	Operation days
		No. of ships	Total tannage	No. of boats	Total tonnage			
			G. T.		G. T.			
1950	3	3	14, 116	44	6, 538	25, 6, 8～26, 1, 3	25, 6, 17～25, 12, 19	170
1951	6	4	25, 308	88	12, 079	26, 1, 25～26, 11, 1	26, 2, 1～26, 10, 20	354
1952	2	2	14, 164	38	4, 703	27, 6, 12～27, 9, 13	27, 6, 22～27, 9, 2	144
1953	2	2	14, 356	37	5, 047	28, 5, 18～28, 11, 8	28, 6, 10～28, 10, 24	171
1954	6	6	37, 409	122	14, 706	28, 12, 22～29, 11, 6	29, 1, 8～29, 10, 23	322
1955	3	3	22, 621	103	11, 873	29, 11, 10～30, 11, 19	29, 11, 29～30, 11, 17	250
1956	3	3	18, 212	94	11, 103	31, 5, 1～31, 12, 13	31, 5, 20～31, 11, 23	192
1957	3	3	18, 212	96	11, 564	32, 5, 14～32, 11, 30	32, 5, 27～32, 11, 10	318
1958	3	3	14, 332	88	10, 682	33, 5, 12～33, 11, 18	33, 5, 26～33, 11, 15	290
1959	4	4	27, 102	162	18, 342	34, 5, 15～34, 11, 24	34, 5, 31～34, 11, 12	348
1960	5	5	30, 835	215	23, 896	35, 5, 3～36, 2, 23	35, 5, 16～36, 2, 9	414

(2) Catch

Unit : kg

Year	Total catch	Catch per boat	Skipjack	Yellowfin tuna	Albacore	Bluefin tuna	Bigeye tuna	Others
1950	6, 479, 138	147, 253	11, 282	3, 726, 446	44, 275	1, 555	523, 445	1, 172, 135
1951	11, 162, 756	126, 850	17, 801	4, 926, 086	124, 132	2, 171	2, 432, 610	3, 659, 956
1952	6, 711, 953	176, 630	27, 521	4, 016, 767	71, 625	6, 769	538, 905	2, 050, 366
1953	8, 130, 889	219, 754	11, 077	4, 347, 300	291, 082	6, 761	747, 904	2, 726, 765
1954	14, 120, 588	115, 743	14, 940	3, 885, 844	3, 555, 128	618, 383	1, 198, 883	4, 847, 410
1955	13, 561, 688	131, 667	28, 147	2, 921, 040	4, 905, 514	6, 210	767, 674	4, 933, 103
1956	11, 180, 959	118, 946	14, 629	2, 021, 332	3, 689, 910	5, 089	1, 495, 898	3, 954, 101
1957	14, 105, 828	146, 936	42, 356	5, 153, 516	3, 125, 906	5, 100	1, 854, 225	3, 924, 725
1958	14, 384, 423	163, 459	41, 554	4, 656, 878	4, 096, 039	4, 358	1, 910, 940	3, 674, 654
1959	20, 688, 395	127, 706	77, 824	2, 920, 336	5, 554, 735	6, 596, 220	1, 364, 460	4, 174, 820
1960	24, 002, 823	111, 641	60, 231	8, 587, 915	7, 971, 405	594, 988	1, 709, 805	5, 078, 479

Note ; Survey by Secand Ocean Section, Fisheries Agency.

Table 14.

Tuna long line fishery by Factory Ship Type, 1960.

(1) Fleet

Name of company	Factory ship		Catcher boat			Days out
	Name	tonnage	No, of boats	Tonnage	Average tonnagge	
TAIYO GYOGYO	3 Tenyou maru	3, 732. 59	45	5, 610. 56	125	35, 5, 3～35, 9, 15
TAIYO GYOGYO	Kouyou maru	7, 658. 53	44	4, 957. 69	113	35 , 8, 18～35, 11, 21
TAIYO GYOGYO	3 Tenyou maru	3, 732. 59	42	4, 245. 70	101	35, 11, 5～36, 2, 23
NIHON SUISAN	Nojimamaru	8, 503. 87	46	5, 360. 71	117	35, 5, 18～35, 9, 8
HOKKAIDO GYO-GYO KOUSHA	Jinyoumaru	7, 207. 13	38	3, 720. 86	98	35, 8, 29～35, 11, 23
Total		30, 834. 71	215	23, 895. 52	111	

(2) Catch by fleet and by species

Name of Feet	Skipjack	Bluefin tuna	Albacore	Bigeye tuna	Yellowfin tuna
3 Tenyoumaru	22, 538	23, 986	2, 395, 104	401, 245	2, 363, 637
Kouyoumaru	8, 961	110, 435	1, 940, 330	328, 654	828, 541
3 Tenyoumaru	6, 770	—	1, 039, 979	193, 120	1, 270, 971
Nojimamaru	17, 302	10, 367	1, 443, 332	555, 446	3, 228, 166
Jinyoumaru	4, 660	450, 200	1, 152, 660	231, 340	896, 600
Total	60, 231	594, 988	7, 971 ,405	1, 709, 805	8, 587, 915

Note ; Survey by Second Ocean Section, Fisheries Agency.

Operation period	Operaion days	Total catch (kg)	Catch per boat (kg)
35, 5, 16～35, 9, 1	109	6, 426, 000	142, 800
35, 9, 2～35, 11, 11	71	4, 489, 290	102, 029
35, 11, 21～36, 2, 9	81	3, 291, 700	78, 374
35, 5, 27～35, 8, 25	91	6, 285, 683	236, 624
35, 9, 12～35, 11, 12	62	3, 510, 150	92, 372
	414	24, 002, 823	111, 641

Unit : kg.

Striped marlin	Broadbill swordfish	Black marlin	White marlin	Sharks	Sailfish	Others
149, 960	59, 307	215, 240	33, 295	625, 872	53, 190	82, 626
294, 857	74, 634	240, 072	37, 320	460, 953	66, 068	98, 465
58, 662	26, 622	371, 458	45, 888	156, 124	65, 831	56, 275
140, 271	52, 433	251, 819	44, 292	385, 416	73, 342	83, 497
116, 990	34, 280	254, 800	41, 440	210, 370	55, 220	61, 590
760, 740	247, 276	1, 333, 389	202, 235	1, 838, 735	313, 651	382, 453

Table 15.

Tuna long line fishery by vessels based at forign ports, 1960.

(1) Pacific Ocean

Unit : kg

Base	No. of trips	Total catch	Species				
			Albacore	Yellowfin tnna	Bigeye tuna	Matlins	Others
Samoa	(a) 171	6, 815, 297	5, 615, 887	575, 434	233, 825	370, 250	19, 901
	(b) 67	4, 067, 923	3, 683, 174	287, 903	69, 222	27, 624	—
	238	10, 883, 220	9, 299, 061	863, 337	303, 047	397, 874	19, 901
Santo	116	4, 026, 948	2, 387, 834	1, 030, 573	171, 057	419, 422	18 ·053

(2) Indian Ocean

Malaya	20	919, 645	191, 612	337, 242	235, 958	115, 759	39, 074
Ceylon	10	465, 527	2, 280	262, 786	153, 846	43, 753	2, 862
Singapore	1	119, 068	18, 633	100, 435	—	—	—

Note ; (1) Survey by Second Ocean Section, Fisheries Agency.

(2) (a) is results of probuction to dealt in by Nihon Reizon Co. and (b) is by Mitsubishi Trading Co.

Table 16.

Tuna long line fishery by vessels operated in the Atlantic Ocean, 1960. Unit : kg

Base	No. of trips	Total catch	Species				
			Albacore	Yellowfin tuna	Bigeye tuna	Marlins	Oters
Panama	35	10, 142, 814	3, 634, 767	5, 889, 940	94, 368	410, 057	113, 682
British Trinidad	33	8, 770, 291	711, 959	7, 571, 585	172, 096	129, 837	184, 814
Italy	56	17, 834, 592	464, 976	16, 026, 754	853, 332	228, 880	260, 650
Yugoslavia	35	12, 916, 152	889, 921	10, 862, 889	787, 667	201, 253	174, 422
Free Town	22	7, 297, 954	1, 149, 988	5, 083, 582	242, 687	449, 525	372, 172
Dakar	16	4, 600, 226	482, 921	3, 818, 728	203, 697	80, 766	14, 114
France	12	3, 208, 702	261, 790	2, 790, 217	85, 629	65, 937	5, 129
Las Palmas	9	1, 506, 823	72, 293	1, 349, 837	50, 086	27, 911	6, 696
Tunisia	7	1, 098, 769	19, 204	906, 328	128, 027	26, 970	18, 240
Livia	1	218, 946	—	218, 946	—	—	—
Greece	1	98, 900	—	98, 900	—	—	—
Argentine	10	2, 096, 242	506, 174	1, 122, 746	67, 620	215, 995	183, 707
Brazil	16	1, 956, 817	233, 649	1, 166, 042	85, 701	196, 158	275, 267
Colombia	4	689, 083	88, 458	529, 545	13, 900	23, 650	33, 530
Cuba	1	509, 820	—	320, 200	16, 500	104, 120	69, 000
Total	243	72, 946, 131	8, 516, 100	57, 756, 239	2, 801, 310	2, 161, 059	1, 711, 423

Note ; (1) Survey by Second Ocean Section, Fisheries Agency.

(2) Panama and British Trinidad are the transshipment places to Amcrica.

Table 17.

Quantity and price of skipjack and tunas at two major markets.
(Jan.–Dec. in 1960.)

Price : Yen (1/$360)

Species	TOKYO			YAIZU		
	Quantity (kg)	Unit price	Amount (YEN)	Quantity (kg)	Unit price	Amount (YEN)
Bluefin tuna	9, 324, 008	232	2, 161, 762, 453	616, 596	250	154, 290, 004
Bigeye tuna	27, 066, 914	139	3, 765, 245, 710	7, 477, 702	98	734, 407, 395
Yellowfin tuna	18, 416, 399	119	2, 144, 586, 537	13, 611, 919	98	1, 333, 660, 108
Albacore	6, 043, 525	96	579, 355, 824	18, 234, 798	110	1, 997, 215, 737
Young tuna	1, 186, 315	138	163, 706, 471	72, 850	122	8, 917, 520
Indian tuna	3, 979, 947	123	490, 101, 214	28, 573, 703	90	2, 574, 794, 575
Striped marlin	3, 775, 246	188	711, 188, 780	978, 107	149	145, 612, 891
Broadbill Swordfish	4, 254, 371	130	554, 208, 069	550, 899	125	68, 848, 054
Black marlin	4, 743, 809	145	689, 441, 989	2, 238, 061	152	340, 613, 884
White marlin	458, 951	121	55, 676, 197	1, 251, 992	120	149, 620, 818
Skipjack	5, 570, 407	114	637, 348, 307	19, 090, 304	93	1, 784, 886, 222
Sharks	18, 220, 149	47	857, 489, 508	38, 661	39	1, 504, 390
Total	103, 040, 041	124	12, 810, 111, 059	92, 735, 592	100	9, 294, 371, 598

Note; Survey by TOKYO CENTRAL MARKET and by FISH MARCET OF YAIZU FISHERIES CO-OPERATIVE ASSOCIATION

Table 18.

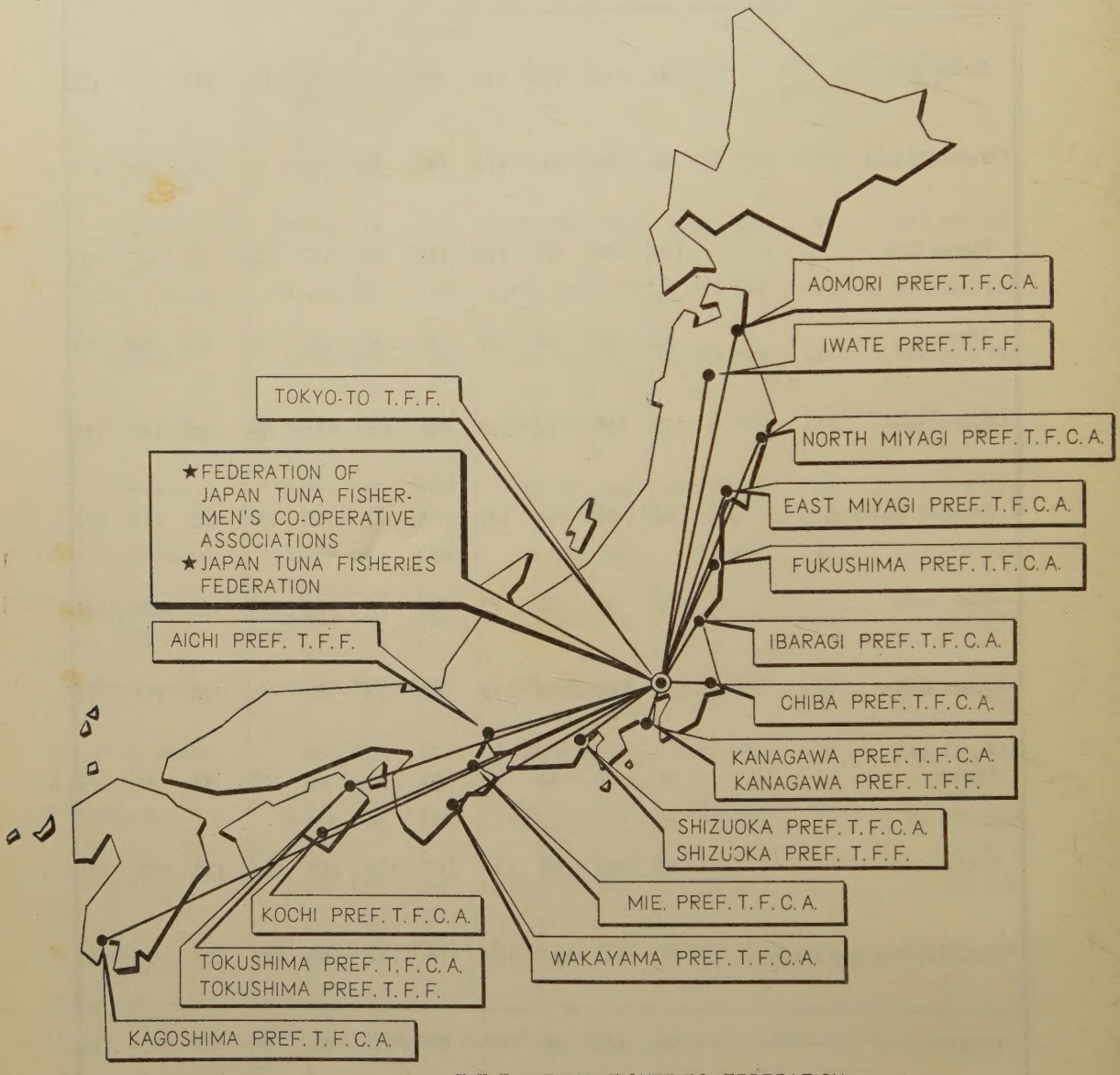
Average market price at Tokyo 1950—1960

Species	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Bluefin tuna	141	172	190	176	187	150	174	169	244	256	232
Yellowfin tuna	84	99	105	114	94	83	88	95	105	109	119
Bigeye tuna	107	109	107	122	110	100	117	120	126	127	139
Albacore	78	84	65	121	130	87	107	67	88	98	96
Striped marlin	133	133	174	205	139	145	151	189	160	164	188
Broadbill Swordfish	95	95	104	121	132	117	119	131	122	114	130
Black marlin	73	80	82	93	86	79	94	105	102	126	145
White marlin	155	106	100	112	80	78	89	93	100	111	121
Sailfish	51	57	54	55	40	39	48	52	44	49	65
Young tunas	70	89	82	134	117	105	110	136	122	109	138
Total of tunas and marlins	99	114	107	127	114	102	116	114	123	131	140
skipjack	63	66	69	97	81	73	82	84	77	77	114

Note; (1) Survey by Tokyo Central Marcket.

(2) average price; total amount (yen)/total quantity(kg).

OUTLINE OF ORGANIZATION OF JAPAN TUNA FISHERMEN'S CO-OPERATIVE ASSOCIATIONS & JAPAN TUNA FISHERIES FEDERATION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